

101.13 - Cast Irons (chip form)

Technical Contact: john.sieber@nist.gov

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit of Issue	C Total	C Graphite	Mn	P	S Comb	Si	Cu	Ni	Cr
4I	Cast Iron	150 g	3.21	2.66	0.825	0.149	0.043	1.33	0.240	0.042	0.118
5m	Cast Iron	150 g	2.59		0.74	0.32	0.133	1.83	0.89	0.041	0.080
6g	Cast Iron	150 g	2.85	2.01	1.05	0.557	0.124	1.05	0.502	0.135	0.370
82b	Cast Iron (Ni-Cr)	150 g	2.85	2.37	0.745	0.025	0.007	2.10	0.038	1.22	0.333
107c	Cast Iron (Ni-Cr-Mo)	150 g	2.99	1.98	0.480	0.079	0.059	1.21	0.205	2.20	0.693
115a	Cast Iron (Cu-Ni-Cr)	150 g	2.62	1.96	1.00	0.086	0.065	2.13	5.52	14.49	1.98
122i	Cast Iron	150 g	3.47		0.530	0.28	0.087	0.89	0.033	0.047	0.151

SRM>	Description	Unit of Issue	C Total	C Graphite	Mn	P	S Comb	Si	Cu	Ni	Cr
334	Gray Cast Iron (Carbon & Sulfur)	150 g	2.83				0.043				
338	White Cast Iron (Carbon & Sulfur)	150 g	3.33				0.015				
341	Ductile Cast Iron	150 g	1.81	1.23	0.92	0.024	0.007	2.44	0.152	20.32	1.98
342a	Nodular Cast Iron	150 g	1.86	1.38	0.274	0.019	0.006	2.73	0.135	0.058	0.034
890	Cast Iron, HC250+V	150 g	2.91		0.62	0.025	0.015	0.67	0.055	0.397	32.4
891	Cast Iron, Ni-Hard, Type I	150 g	2.71		0.55	0.038	0.029	0.56	0.150	4.48	2.23
892	Cast Iron, Ni-Hard, Type IV	150 g	3.33		0.76	0.054	0.015	1.83	0.270	5.53	10.18

Values in parentheses are not certified and are given for information only.

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V

0.024
0.033
0.056
0.027
0.015
0.014
0.012

V

0.012
0.45
0.039
0.041

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SRM	Description	Unit of Issue	Mo	Co	Ti	As	Sn	Al (total)	Mg	N	Fe
4l	Cast Iron	150 g	0.040	Zn ((0.03)	(0.03)	(0.004)	(0.004)	Sb ((0.0016)	Pb (0.001)
5m	Cast Iron	150 g	0.029		0.097					0.006	
6g	Cast Iron	150 g	0.035		0.059	0.042				0.005	
82b	Cast Iron (Ni-Cr)	150 g	0.002		0.027						
107c	Cast Iron (Ni-Cr-Mo)	150 g	0.83		0.019						
115a	Cast Iron (Cu-Ni-Cr)	150 g	0.050		0.020						
122i	Cast Iron	150 g	0.008		0.024						

SRM>	Description	Unit of Issue	Mo	Co	Ti	As	Sn	Al (total)	Mg	N	Fe
334	Gray Cast Iron (Carbon & Sulfur)	150 g									
338	White Cast Iron (Carbon & Sulfur)	150 g									
341	Ductile Cast Iron	150 g	0.010		0.018				0.068		
342a	Nodular Cast Iron	150 g	0.006		0.020				0.070		
890	Cast Iron, HC250+V	150 g	0.018	(0.03)		(0.008)		((0.089)	(61.8)
891	Cast Iron, Ni-Hard, Type I	150 g	0.27	0.19	(0.01)	(0.004)	((0.008)		(0.012)	(88.5)
892	Cast Iron, Ni-Hard, Type IV	150 g	0.20	0.31	(0.02)	(0.006)	(0.02)	(0.009)		(0.019)	(77.4)

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S Grav



0.064



S Grav



0.007



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